

IN THE SPECIFICATION:

Please replace Table 2 beginning on page 17 and ending on page 17, with the following:

TABLE 2

Steel No.	Refining Conditions		Slab	Casting Conditions	Slab	Hot Rolling Conditions			Cold Rolling Conditions		Classification			
	Secondary Refining Apparatus	D/D ₀				Number of cluster-type inclusions (number/10kg)	Throughput (ton/min)	Number of spheroidal inclusions (number/10kg)	Hot rolling starting temp(°C)	Temperature Holding (°C)	Finishing temp(°C)	Coiling temp (°C)	Annealing type	Annealing temp (°C)
1a	RH	—	8.0	8070	3.9	220	1120	None	920	680	CAL	810	◎	Present Invention
1b					5.7	860	1140	None	930	680	CAL	811	△	Comparative
1c					3.9	220	1040	Rough bar heater	900	680	CAL	810	◎	Present Invention
1d					3.9	220	1040	None	850	680	CAL	810	○	Comparative
2a	RH	—	3.5	4210	4.4	236	1100	None	930	580	CGL	830	◎	Present Invention
2b					4.4	236	1100	None	910	580	BAF	700	◎	Present Invention
2c					5.2	630	1100	None	930	580	CGL	830	△	Comparative
2d					5.2	630	1100	None	930	580	BAF	710	△	Comparative
3a	RH	—	18.0	38000	2.8	121	1080	None	900	610	CAL	800	△	Comparative
4a	RH	—	5.5	8030	3.6	134	1090	None	900	610	CAL	800	◎	Present Invention
5a	RH	—	14.0	14600	2.6	108	1160	None	890	710	CGL	820	◎	Present Invention
5b					2.6	108	1060	Rough bar heater	900	710	CGL	820	◎	Present Invention
5c					2.6	108	1060	Rough bar heater	900	400	CGL	820	○	Comparative
6a	RH	—	3.0	310	5.4	32	880	None	880	650	CAL	780	×	Comparative
7a	RH	—	12.0	13080	5.3	490	1120	None	920	650	CGL	800	×, △	Comparative
7b	RH	—	22.0	56500	4.1	210	1050	Rough bar heater	950	700	CGL	820	×	Comparative
9a	Single-Tube immersion pipe	0.40	12.1	13100	4.2	280	1080	None	910	600	CAL	800	◎	Present Invention
9b					5.2	495	1080	None	910	600	CAL	800	△	Comparative
10a	Single-Tube immersion pipe	0.48	10.3	10800	3.0	158	980	Rough bar heater	900	560	CGL	800	○	Present Invention
10b					5.4	710	980	Rough bar heater	900	560	CGL	800	△	Comparative
11a	Single-Tube immersion pipe	0.55	3.3	2600	2.5	140	1080	None	900	680	CAG	830	◎	Present Invention
11b					5.6	750	1080	None	900	680	CAL	830	△	Comparative
12a	Single-Tube immersion pipe	0.62	3.3	2100	3.8	110	1040	None	920	650	CGL	830	○	Present Invention
12b					5.2	530	1040	None	920	650	CGL	830	△	Comparative
13	Single-Tube immersion pipe	0.71	3.1	1300	4.3	230	1060	None	900	560	BAF	700	◎	Present Invention
13b					5.7	770	1060	None	900	560	BAF	700	△	Comparative

Notes:

Rough bar heater: This was an apparatus for carrying out heating or a short period of temperature holding after rough rolling during hot rolling
 BAF: batch annealing CAF: continuous annealing CGL: continuous annealing CGL: continuous hot dip galvanizing

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Please replace Table 3 beginning on page 18 and ending on page 18, with the following:

TABLE 3

Steel No.	Type of Product	Product Properties						Cause of forming defects	Classification
		Number of observed inclusions	Sheet thickness (mm)	YP (N/mm ²)	TS (N/mm ²)	EL (%)	r ^{value} (%)		
1a	Electroplated plate	12	0.70	144	310	48	1.9	0	◎ Present Invention
1b	Electroplated plate	29	0.70	135	305	48	1.9	3.1**	△ Comparative
1c	Cold Rolled plate	8	0.65	135	308	47	2.0	0	◎ Present Invention
1d	Cold Rolled plate	11	0.65	122	267	41	1.2**	23.0**	○ Comparative
2a	Molten-Metal-Coated plate	7	0.75	126	297	50	2.0	0	◎ Present Invention
2b	Cold Rolled plate	3	0.90	153	317	45	1.7	0	◎ Present Invention
2c	Molten-Metal-Coated plate	38	0.75	131	301	49	2.0	7.2**	pin holes △ Comparative
2d	Cold Rolled plate	56	0.90	144	312	47	1.7	2.3**	pin holes △ Comparative
3a	Cold Rolled plate	131	0.70	210	353	42	1.7	12.0**	pin holes △ Comparative
4a	Cold Rolled plate	8	0.70	221	358	41	1.8	0	— ◎ Present Invention
5a	Molten-Metal-Coated plate	16	1.40	306	453	34	1.8	0	— ◎ Present Invention
5b	Molten-Metal-Coated plate	10	1.40	310	451	33	1.7	0	— ◎ Present Invention
5c	Molten-Metal-Coated plate	5	1.40	380	501	27	1.3**	31.0**	— ○ Comparative
6a	Cold Rolled plate	8	0.50	230	344	36	1.1**	58.0**	— X Present Invention
7a	Molten-Metal-Coated plate	83	1.20	228	342	46	1.3**	35.0**	pin holes, drawing cracks X, △ Comparative
7b	Molten-Metal-Coated plate	13	1.20	231	338	47	1.3**	24.0**	— X Comparative
8a	Molten-Metal-Coated plate	77	1.60	398	520	27	1.2**	85.0**	pin holes, drawing cracks X, △ Comparative
9a	Electroplated plate	15	0.90	121	288	51	2.1	0	— ◎ Present Invention
9b	Electroplated plate	48	0.90	123	290	51	2.1	4.2**	pin holes △ Comparative
10a	Molten-Metal-Coated plate	13	0.65	133	296	49	2.0	0	— ○ Present Invention
10b	Molten-Metal-Coated plate	88	0.65	131	298	50	2.0	4.5**	pin holes △ Comparative
11a	Cold Rolled plate	10	0.45	118	277	51	2.3	0	— ○ Present Invention
11b	Cold Rolled plate	200	0.45	125	280	49	2.3	3.0**	pin holes △ Comparative
12a	Molten-Metal-Coated plate	7	0.65	133	308	50	2.2	0	— ○ Present Invention
12b	Molten-Metal-Coated plate	75	0.65	132	305	51	2.3	2.5**	pin holes △ Comparative
13a	Cold Rolled plate	3	0.90	134	308	48	1.9	0	— ○ Present Invention
13b	Cold Rolled plate	124	0.90	138	305	49	2.0	1.7**	pin holes △ Comparative

Note :

** : Did not satisfy target properties

Classification: ◎: Present invention, ○: Unacceptable rolling conditions

△ : Unacceptable steel manufacturing conditions, △ : Unacceptable steel manufacturing conditions, X : Unacceptable composition